marantz®

Model SD555 User Guide

Stereo Double Cassette Deck

ENGLISH

WARRANTY
For warranty information, contact your local Marantz distributor.

RETAIN YOUR PURCHASE RECEIPT
Your purchase receipt is your permanent record of a valuable purchase. It should be kept in a safe place to be referred to as necessary for insurance purposes or when corresponding with Marantz.

IMPORTANT
When seeking warranty service, it is the responsibility of the consumer to establish proof and date of purchase. Your purchase receipt or invoice is adequate for such proof.

FOR U.K. ONLY
This undertaking is in addition to a consumer's statutory rights and does not affect those rights in any way.

FRANÇAIS

GARANTIE
Pour des informations sur la garantie, contacter le distributeur local Marantz.

CONSERVER L'ATTESTATION D'ACHAT
L'attestation d'achat est la preuve permanente d'un achat de valeur. La conserver en lieu sur pour s'y reporter aux fins d'obtention d'une couverture d'assurance ou dans le cadre de correspondances avec Marantz.

IMPORTANT
Pour l'obtention d'un service couvert par la garantie, il incombe au client d'établir la preuve de l'achat et d'en corroborer la date. Le reçu ou la facture constituent des preuves suffisantes.

DEUTSCH

GARANTIE
Bei Garantiefragen wenden Sie sich bitte an Ihren Marantz-Händler.

HEBEN SIE IHRE QUITTING GUT AUF
Die Quittung dient Ihnen als bleibende Unterlage für Ihren wertvollen Einkauf Das Aufbewahren der Quittung ist wichtig, da die darin enthaltenen Angaben für Versicherungswecke oder bei Korrespondenz mit Marantz angeführt werden müssen.

WICHTIG!
Bei Garantiefragen muß der Kunde eine Kaufunterlage mit Kaufdatum vorlegen. Ihren Quittung oder Rechnung ist als Unterlage ausreichend.

NEDERLANDS

GARANTIE
Voor inlichtingen omtrent garantie dient u zich tot uw plaatselijke Marantz.

UW KWITANTIE, KASSABON E.D. BEWAREN
Uw kwitantie, kassabon e.d. vormen uw bewijs van aankoop van een waardevol artikel en dienen op een veilige plaats bewaard te worden voor evt. verwijzing bijv. in verbend met verzekering of bij correspondentie met Marantz.

BELANGRIJK
Bij een evt. beroep op de garantie is het de verantwoordelijkheid van de consument een gedateerd bewijs van aankoop te tonen. Uw kassabon of factuurzijn voldoende bewijs.

ESPAÑOL

GARANTIA
Para obtener información acerca de la garantia póngase en contacto con su distribuidor Marantz.

GUARDE SU RECIBO DE COMPRA
Su recibo de compra es su prueba permanente de haber adquirido un aparato de valor, Este recibo deberá guardarlo en un lugar seguro y utilizarlo como referencia cuando tenga que hacer uso del seguro o se ponga en contacto con Marantz.

IMPORTANTE
Cuando solicite el servicio otorgado por la garantia el usuario tiene la responsabilidad de demonstrar cuándo efectuó la compra. En este caso, su recibo de compra será la prueba apropiada.

ITALIANO

Condizioni di garanzia
L'apparecchio e' garantito per 365 giorni dalla data di acquisto comprovata da un documento attestante il nominativo del rivenditore e la data di vendita. La garanzia sara' prestata con la sostituzione o riparazione gratuita delle parti difettose.

Non sono coperti da garanzia difetti derivanti da uso improprio, errata installazione, manutenzione effettuata da personale non autorizzato o, comunque, da circostanze che non possano riferirsi a difetti di tunzionamento dell'apparecchio. Sono inoltre esclusi dalla garanzia gli interventi inerenti l'installazione e l'allacciamento agli impianti di alimentazione.

Gli apparecchi verranno riparati presso i nostri Centri di Assistenza. Le spese ed i rischi di trasporto sono a carico del cliente.

La casa costruttrice declina ogni responsabilita' per danni diretti o indiretti provocati dalla inosservanza delle prescrizioni di installazione, uso e manutenzione dettagliate nel presente manuale.

Per informazioni sull'abbonamento al Servizio Assistenza postgaranzia e per conoscere l'indirizzo dei Centri Assistenza Marantz rivolgetevi al nostro servizio consumatori (telefono 1678-20026 - numero verde).

PORTUGUÊS

GARANTIA
Para informações sobre a garantia, contactar o distribuidor Marantz local.

GUARDAR O RECIBO DE COMPRA
O recibo é o registo permanente da compra que fez. Deve ser guardado num local seguro, para ser apresentado em questões relacionadas com o seguro ou para quando tiver de contactar a Marantz.

IMPORTANTE
Quando procurar assisténcia técnica ao abrigo da garantia, é da responsabilidade do consumidor estabelecer a prova e data de compra. O recibe é prova adequada.

SVENSKA

GARANTI
För information om garantin, kontakta Marantz lokalagent.

SPAR KVITTOT
Kvittot är ett inköpsbevis på en värdefull vara. Det skall förvaras säkert och hänvisas till vid försäkringsfall eller vidkorrespondens mod Marantz.

VIKTIGT
Fö att garantin skall gälla är det kundens sak att framställa bevis och datum om köpet. Kvitto eller faktura är tillräckligt bevis fö detta.

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CE MARKING

CE **English**
The SD555 is in conformity with the EMC directive and low-voltage directive.

CE **Français**
Le SD555 est conforme à la directive EMC et à la directive sur les basses tensions.

CE **Deutsch**
Das Modell SD555 entspricht den EMC-Richtlinien und den Richtlinien für Niederspannungsgeräte.

CE **Nederlands**
De SD555 voldoet aan de EMC eisen en de vereisten voor laag-voltage.

CE **Italian**
Il SD555 è conforme alle direttive CEE ed a quelle per i bassi voltaggi.

CE **Português**
O SD555 conforma com as diretrizes EMC e de baixa voltagem.

CE **Español**
El SD555 está de acuerdo con las normas EMC y las relacionadas con baja tensión.

CE **Svenska**
SD555 är tillverkad i enlighet med EMC direktiven och direktiven för lågvoltsutrusning.

English
In order to allow proper heat dissipation, do not use this unit installed in a rack, bookcase, etc.

Français
De façon à permettre la dissipation normale de la chaleur, ne pas installer cet appareil dans un meuble, une bibliothèque, etc.

Deutsch
Um eine einwandfreie Wärmeableitung zu gewährleisten, darf dieses Gerät nicht in einem Gestell, Bücherregal usw. eingebaut werden.

Italian
Per permettere una buona aerazione, l'unità non deve venire installata in scaffali o spazi chiusi.

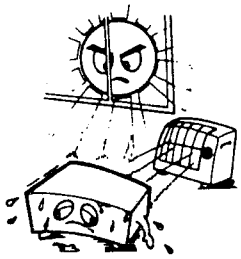
Dutch
Voor een goede ventilatie van het toestel dient het niet in een afgesloten rek, boekenkast, etc. te worden gebruikt.

Spanish
Para permitir que el calor se disipe apropiadamente, no utilice esta unidad instalada en un estante cerrado, una librería cerrada, etc.

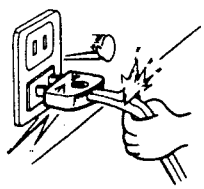
Portuguese
Para possibilitar uma dissipação adequada do calor, não utilizar o aparelho dentro duma estante ou algo semelhante.

Swedish
Installera inte enheten i en ställning, bokhylla el.dyl. då detta kan förhindra lämplig värmeutsöndring.

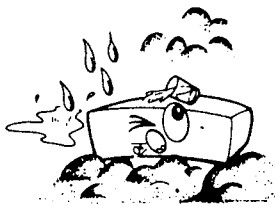
NOTE ON USE/HINWEISE ZUM GEBRAUCH/OBSERVATIONS RELATIVES A L'UTILISATION NOTE SULL'USO/NOTAS SOBRE EL USO/ALVORENS TE GEBRUIKEN/OBSERVERA OBSERVAÇÕES QUANTO AO USO



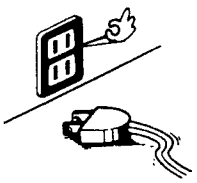
- Avoid high temperatures
  Allow for sufficient heat dispersion when installed on a rack.
- Eviter des températures élevées
  Tenir compte d'une dispersion de chaleur suffisante lors de l'installation sur une étagère.
- Vermeiden Sie hohe Temperaturen
  Beachten Sie, daß eine ausreichend Luftzirkulation gewährleistet wird, wenn das Gerät auf ein Regal gestellt wird.
- Vermijd hoge temperaturen.
  Zorg voor een degelijk hitteafvoer indien het apparaat op een rek wordt geplaatst.
- Evite altas temperaturas
  Permite la suficiente dispersión del calor cuando está instalado en la consola.
- Evitate di esporre l'unità a temperature alte.
  Assicuratevi che ci sia un'adeguata dispersione del calore quando installate l'unità in un mobile per componenti audio.
- Evite temperaturas altas
  Conceda suficiente dispersão de calor quando o equipamento for instalado numa prateleira.
- Undvik höga temperaturer.
  Se till att det finns möjlighet till god värmeavledning vid montering i ett rack.



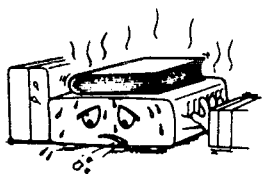
- Handle the power cord carefully.
  Hold the plug when unplugging the cord.
- Manipuler le cordon d'alimentation avec précaution.
  Tenir la prise lors du débranchement du cordon.
- Gehen Sie vorsichtig mit dem Netzkabel um.
  Halten Sie das Kabel am Stecker, wenn Sie den Stecker herausziehen.
- Hanteer het netsnoer voorzichtig.
  Houd het snoer bij de stekker vast wanneer deze moet worden aan- of losgekoppeld.
- Maneje el cordón de energía con cuidado.
  Sostenga el enchufe cuando desconecte el cordón de energía.
- Manneggiate il filo di alimentazione con cura.
  Agite per la spina quando scollegate il cavo dalla presa.
- Manuseie com cuidado o fio condutor de energia.
  Segure a tomada ao desconectar o fio.
- Hantera nätkabeln varsamt.
  Håll i kabeln när den kopplas från eluttaget.



- Keep the set free from moisture, water, and dust.
- Protéger l'appareil contre l'humidité, l'eau et la poussière.
- Halten Sie das Gerät von Feuchtigkeit, Wasser und Staub fern.
- Laat geen vochtigheid, water of stof in het apparaat binnendringen.
- Mantenga el equipo libre de humedad, agua y polvo.
- Tenete l'unità lontana dall'umidità, dall'acqua e dalla polvere.
- Mantenha o aparelho livre de qualquer umidade, água ou poeira.
- Utsätt inte apparaten för fukt, vatten och damm.

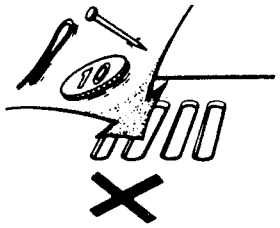


- Unplug the power cord when not using the set for long periods of time.
- Débrancher le cordon d'alimentation lorsque l'appareil n'est pas utilisé pendant de longues périodes.
- Wenn das Gerät eine längere Zeit nicht verwendet werden soll, trennen Sie das Netzkabel vom Netzstecker.
- Neem altijd het netsnoer uit het stopkontakt wanneer het apparaat gedurende een lange periode niet wordt gebruikt.
- Desconecte el cordón de energía cuando no utilice el equipo por mucho tiempo.
- Disinnestate il filo di alimentazione quando avete l'intenzione di non usare il filo di alimentazione per un lungo periodo di tempo.
- Desligue o fio condutor de força quando o aparelho não tiver que ser usado por um longo período.
- Koppla ur nätkabeln om apparaten inte kommer att användas i lång tid.



*(For sets with ventilation holes)

- Do not obstruct the ventilation holes.
- Ne pas obstruer les trous d'aération.
- Die Belüftungsöffnungen dürfen nicht verdeckt werden.
- De ventilatieopeningen mogen niet worden beblokkeerd.
- No obstruya los orificios de ventilación.
- Non coprite i fori di ventilazione.
- Não obstrua os orifícios de ventilação.
- Täpp inte till ventilationsöppningarna.



- Do not let foreign objects in the set.
- Ne pas laisser des objets étrangers dans l'appareil.
- Keine fremden Gegenstände in das Gerät kommen lassen.
- Laat geen vreemde voorwerpen in dit apparaat vallen.
- No deje objetos extraños dentro del equipo.
- E' importante che nessun oggetto è inserito all'interno dell'unità.
- Não deixe objetos estranhos no aparelho.
- Se till att främmande föremål inte tränger in i apparaten.

- Do not let insecticides, benzene, and thinner come in contact with the set.
- Ne pas mettre en contact des insecticides, du benzène et un diluant avec l'appareil.
- Lassen Sie das Gerät nicht mit Insektiziden, Benzin oder Verdünnungsmitteln in Berührung kommen.
- Laat geen insektenverdelgende middelen, benzine of verfverdunner met dit apparaat in kontakt komen.
- No permita el contacto de insecticidas, gasolina y diluyentes con el equipo.
- Assicuratevvi che l'unità non venga in contatto con insetticidi, benzolo o solventi.
- Não permita que inseticidas, benzina e dissolvente entrem em contacto com o aparelho.
- Se till att inte insektsmedel på spraybruk, bensen och thinner kommer i kontakt med apparatens hölje.

- Never disassemble or modify the set in any way.
- Ne jamais démonter ou modifier l'appareil d'une manière ou d'une autre.
- Versuchen Sie niemals das Gerät auseinander zu nehmen oder auf jegliche Art zu verändern.
- Nooit dit apparaat demonteren of op andere wijze modifiëren.
- Nunca desarme o modifique el equipo de ninguna manera.
- Non smontate mai, nè modificate l'unità in nessun modo.
- Nunca desmonte ou modifique o aparelho de alguma forma.
- Ta inte isär apparaten och försök inte bygga om den.

ENGLISH

FOREWORD

This section must be read before any connection is made to the mains supply.

WARNINGS

Do not expose the equipment to rain or moisture.

Do not remove the cover from the equipment.

Do not push anything inside the equipment through the ventilation holes.

Do not handle the mains lead with wet hands.

MAINS VOLTAGE SETTING

Your Marantz product has been designed to comply with the household power and safety requirements in your area.

The /02 or /05 version product can be powered by 230 V AC only.

On the rear panel of the /01 version product, a voltage selector (2-position) is provided. Be sure to set the voltage selector to the mains voltage of your area before using the unit.

IMPORTANT:

This apparatus is fitted with an approved moulded 13 Amp plug. To change a fuse in this type of plug proceed as follows:

1. Remove fuse cover and fuse.
2. Fix new fuse which should be a BS1362 5A, A.S.T.A. or BSI approved type.
3. Refit the fuse cover.

If the fitted plug is not suitable for your socket outlets, it should be cut off and an appropriate plug fitted in its place.

If the mains plug contains a fuse, this should have a value of 5A. If a plug without a fuse is used, the fuse at the distribution board should not be greater than 5A.

NOTE:

The severed plug must be destroyed to avoid a possible shock hazard should it be inserted into a 13A socket elsewhere.

HOW TO CONNECT A PLUG

The wires in the mains lead are coloured in accordance with the following code:

BLUE—"NEUTRAL" ("N")

BROWN—"LIVE" ("L")

1. The BLUE wire must be connected to the terminal which is marked with the letter "N" or coloured BLACK.
2. The BROWN wire must be connected to the terminal which is marked with the letter "L" or coloured RED.
3. Do not connect either wires to the earth terminal in the plug which is marked by the letter "E" or by the safety earth symbol ⏚ or coloured green or green-and-yellow.

Before replacing the plug cover, make certain that the cord grip is clamped over the sheath of the lead — not simply over the two wires.

COPYRIGHT

Recording and playback of any material may require consent. For further information refer to the following:

— Copyright Act 1956

— Dramatic and Musical Performers Act 1958

— Performers Protection Acts 1963 and 1972

— any subsequent statutory enactments and orders.

ABOUT THIS USER GUIDE

Refer to the diagrams on page 74 at the rear of this user guide. The numbers on the diagrams correspond to those in the text. All references to the connections and controls that are printed in BOLD type are as they appear on the unit.

PRECAUTIONS

The following precautions should be taken when operating the equipment.

GENERAL PRECAUTIONS

When siting the equipment ensure that:

— the ventilation holes are not covered;

— air is allowed to circulate freely around the equipment

— it is on a vibration free-surface;

— it will not be exposed to interference from an external source;

— it will not be exposed to excessive heat, cold, moisture or dust;

— it will not be exposed to direct sunlight;

— it will not be exposed to electrostatic discharges

Never place heavy objects on the equipment.

If a foreign body or water does enter the equipment, contact your nearest dealer or service centre.

Do not pull out the plug by pulling on the mains lead, hold the plug.

It is advisable when leaving the house, or during a thunderstorm, to disconnect the equipment from the mains supply.

DOLBY HX PRO

The Dolby HX-Pro system consists of a circuit which drastically expands the tape recording performance and greatly improves the high-frequency recording characteristic.

With an ordinary recording circuitry based on a fixed bias system, the use of a small bias during recording can improve the high-frequency MOL, but increases the overall distortion. On the contrary, large bias can decrease distortion but the high-frequency MOL is degraded in this case.

As a result, in case the recorded music contains a large amount of high-frequency component, the effects of the high-frequency component and fixed bias are multiplied resulting in over-bias, which degrades the high-frequency saturation level. This tendency is further enhanced when the recording level is high.

On the other hand, the Dolby HX-Pro system detects the high-frequency component contained in the signal to be recorded and controls the recording bias accordingly, so that the saturation level characteristic is improved by reducing the high-frequency bias while maintaining the effective bias for the middle and low frequency components.

This makes it possible to obtain a reproduction performance with enough headroom close to Metal tapes from normal-position tapes.

It is to be noted that, unlike noise reduction systems, the Dolby HX-Pro system is a recording bias adjustment system which functions only during recording. Therefore, cassettes recorded with the Dolby HX-Pro system can be played back at any other cassette deck.

DOLBY NOISE REDUCTION

The Dolby NR (Noise Reduction) systems reinforce low-level signals in the high and middle frequencies for certain amount during recording, and attenuate these signals for the same amount during playback. As a result, the same signal as the recorded signal can be reproduced, except that the tape hiss noise usually generated in tape recording is reduced largely.

The principle of the Dolby NR system of the C type is similar to the previously-released B type but, while the B type is capable of reducing noise by about 10 dB, the noise reduction performance of the new C type is about 20 dB, which is three times greater than the B type.

Note:

The effect of Dolby B/C NR systems can be obtained only when the same type of NR system is used in both recording and playback. If it is used only in recording or playback, or if different types are used in recording and playback, the high frequencies will be degraded and sound quality will be unnatural.

Thank you very much for purchasing the MARANTZ component stereo cassette tape deck.
MARANTZ proudly presents this advanced tape deck to audiophiles and music lovers as a further proof of MARANTZ's non-compromising pursuit of the ultimate in sound quality. The high quality performance and easy operation are certain to provide you with many hours of outstanding listening pleasure.

Please check to make sure the following items are included with the main unit in the carton:

(1) Operating Instructions 1
(2) Connection Cords 2
(3) Pin-Plug Cable 1

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FEATURES

- Computer Controlled Mechanism
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- Dolby HX-Pro Headroom Extension System
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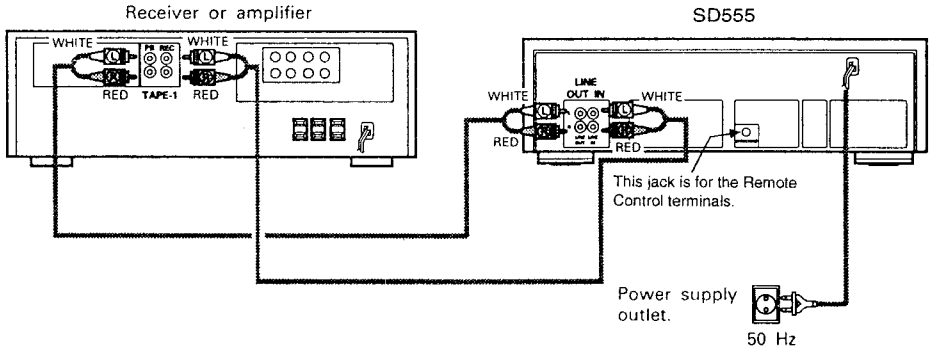
- Music Search System
- FL Peak Level Meters
- Auto Tape Selector
- 2-Speed Dubbing
- Relay Playback
- Synchronized Recording
- Timer Play and Timer Recording
- Optional Remote Controllable

CONNECTION

- Leave your entire system (including this cassette deck) turned off until all connections between the deck and other components have been completed.



■ **Connecting the Deck to an Amplifier**
- Before connecting the deck to your amplifier, please review your amplifier's instruction manual.
- Use the white plugs for the left channel and red plugs for the right channel.

■ **Tape Dubbing**
- Many stereo amplifiers and receivers have tape dubbing circuitry so that tape duplication can be performed between two or more tape decks. Review your amplifier's instruction manual for a full explanation of this mode of operation.

■ **Connecting Headphones**
To listen through headphones, plug your headphones into the PHONES jack.

■ **REMOTE CONTROL TERMINALS**
For the operation of the system remote control, the REMOTE CONT. IN/OUT jack should be connected to the remote control output jack of your amplifier and CD PLAYER.
The following functions of this Marantz product can be remote-controlled when it is connected with a component incorporating a remote control eye.
Play, ▶▶, ◀◀, Pause, Stop, Rec/Rec Mute, Counter (Memo), Direction, ⏮,⏭.
However, the remote-controllable functions are dependent on the type of remote control used.
If this Marantz product is to be remote-controlled by a Marantz Learning Remote Control, please refer to the Command Code Table of page11 at the end of this manual.
The connections can be made using RCA-type pin-plug leads available in audio accessory stores.

■ **Installation Precautions**
If the deck is placed near an amplifier, TV or tuner, noise (induced hum) or beat interference may result, especially during FM or AM reception. If this occurs, place the deck further away from other components or reorient its position.

Caution
A mechanical sound is heard the first time the power switch is set to "ON" after the power cord is plugged into an outlet. This is the sound of the cassette mechanism being set to the proper operating state, and is normal.
(When using an AC outlet on a receiver or amplifier, used an "UNSWITCHED" outlet.)

NAMES AND FUNCTIONS OF PARTS

❶ Power Switch (POWER)
Press once to turn the power to deck on, and once more to turn the power off.
The deck remains in a stand-by (non-operative) mode for approximately 2 seconds after it is switched on.

❷ Eject Button (⏏ EJECT)
Press this button to open the cassette compartment cover. When the tape is running, press the STOP (■) button first to stop tape transport, then press the Eject button.

❸ Counter Reset Button (COUNTER RESET)
Press this button to reset the tape counter to zero.

❹ MPX Filter Button (MPX)
The MPX FILTER button should be used to prevent interference with the Dolby NR circuit when making Dolby NR encoded recordings of FM stereo programs.
When making Dolby NR encoded recordings from any program source other than FM stereo, leave this button in the "OFF" position.

❺ Counter Memory Button (MEMORY)
When this button is pressed during forward tape travel (▷), fast rewinding (◀◀) will stop automatically at the tape counter position "0000".
When this button is pressed during reverse tape travel (◁), fast forwarding (▶▶) will stop automatically at the tape counter position " 0000. ". See page 10.

❻ Dolby NR Switch (DOLBY NR)
To record or playback tapes with Dolby B or C-type noise reduction, set this switch to "B" or "C". Turn it "OFF" when not using the Dolby NR system.

❼ Reverse Mode Switch (REV. MODE)
Select the type of tape transport. The reverse mode can be set to ⇄ (one side), ⟲ (continuous playback), ⊃ (RELAY) (relay playback).

❽ Dubbing Speed Buttons (DUBBING SPEED)
Pressing the NORMAL button starts regular speed dubbing from deck A to deck B. Press the HIGH button to perform dubbing at double speed. See page 9.

❾ Bias Fine Control (BIAS FINE)
(For Normal, CrO_2 and Metal tape)
Use this control to fine-adjust the bias. Standard bias is obtained at the center click-stop position. See page 8.

❿ Rec Level Control (REC LEVEL)
This knob adjusts the recording input level. It affects the level in both channels. See page 8.

⓫ Cassette Compartment Cover
If the cover is not closed completely, the tape transport buttons will remain inoperative.

⓬ Headphone Jack (PHONES)
For private music enjoyment without disturbing others, or for monitoring a recording, a headphone set may be connected to this jack. Use a headphone with an impedance rating of 8 to 1200 Ω/ohms.

⓭ Remote Sensor (IR SENSOR)
With SD555 the remote control unit is not included.
Each of "PLAY, FF, REW, STOP, REC PAUSE and REC/REC MUTE" functions can be remote controlled with wireless handset of the "BUS" SYSTEM MODELS.
NOTE:
Note that only the A deck can be operated with remote control units which have no A/B selector button.

Caution:
Whenever the power switch is in the OFF state, the apparatus is still connected on AC line voltage.
Please be sure to unplug the cord when you leave home for, say, a vacation.

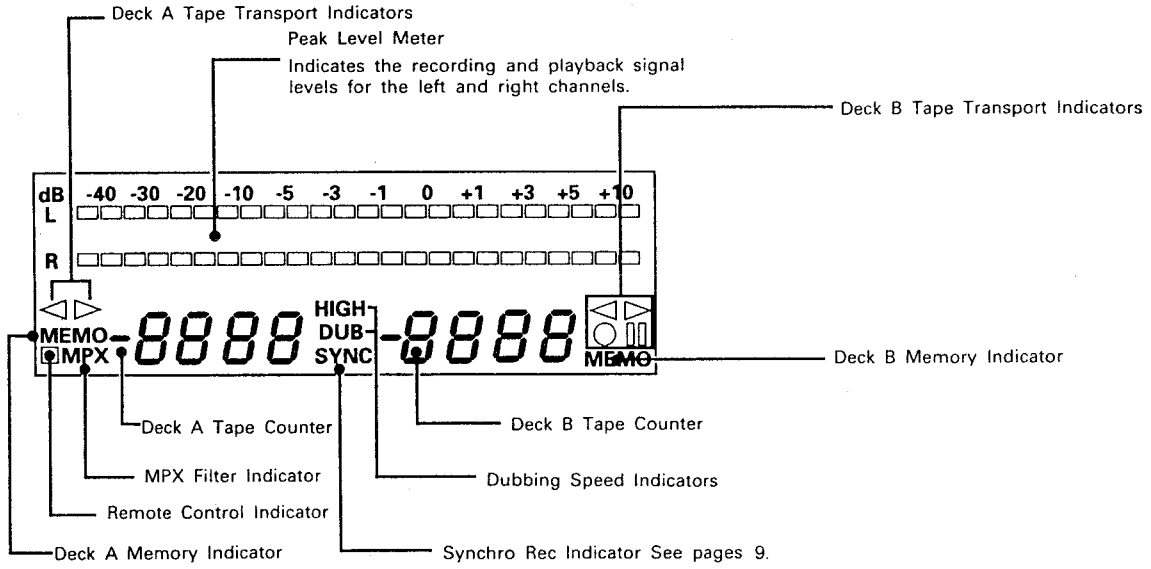
⓮ Timer Switch (TIMER)
This switch is provided for use with an optional audio timer for unattended recording or morning-alarm playback.
For non-timer operation, this switch should be set in the "OFF" position. See page 10.

⓯ Tape Transport Buttons

PLAY	Play Button	Press to playback tape.
■	Stop Button	Press to stop the tape in any mode.
◀◀	Fast Rewind Button	Press for fast rewind.
▶▶	Fast Forward Button	Press for fast forwarding.
● REC/REC MUTE (Deck B only)	Rec/Rec Mute Button	Press the REC/REC MUTE (●) button and PLAY button simultaneously to start recording. If only the REC/REC MUTE (●) button is pressed, the deck enters the Recording Pause mode. Pressing this button in the Recording Pause mode will start Auto Rec Mute, and a 5-second silent space is recorded onto the tape. See page 8.
II REC PAUSE (Deck B only)	Rec Pause Button	Press this button to enter the recording pause mode from the recording or recording mute mode. This button can only be used during recording. See page 8.
◀▶	Direction Button	Changes the tape transport direction from forward "▶" to reverse "◀", and vice versa.

⑯ Display

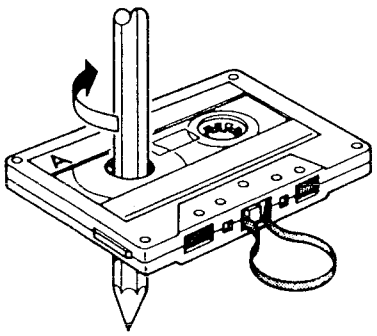
Indicators with an encircled number light up when the corresponding button is pressed.



CASSETTE TAPES

■ **Handling Precautions**

- C-120 Cassettes
  C-120 cassette tapes are not recommended as they use a very thin tape base which may become tangled around the capstan or pinch roller.
- Tape Slack
  Before putting a tape into the deck, take up any slack with a pencil or your finger tip. This precaution prevents the tape from becoming entangled around the capstan or pinch roller.

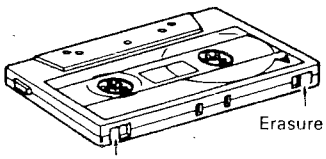


■ **Storage Precautions**

- Do not store cassette tapes in a place where they will be subject to:
  - Extremely high temperature or excessive moisture
  - Excessive dust
  - Direct sunlight
  - Magnetic fields (near TV sets or speakers)
- To eliminate tape slack, store your cassettes in cassette cases with hub stops

■ **Accidental Erasure Prevention**

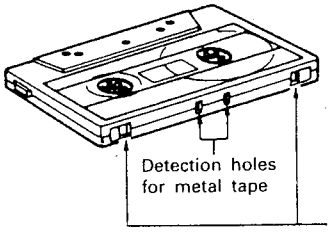
- All cassettes have erasure prevention tabs for each side. To protect valuable recordings from accidental or inadvertent erasure, remove the tab for the appropriate side with a screwdriver or another tool.
- To record on a tape whose erasure prevention tabs have been removed, cover the tab holes with adhesive tape.



AUTOMATIC TAPE SELECTION

This Stereo Cassette Deck contains an automatic tape selector which automatically selects the optimum bias and equalization for the tape in use. This is accomplished by detection of the tape type detections holes in the cassette housing.

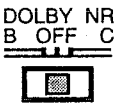
- If a tape without tape type detection holes is used, the deck will be set for normal tapes.



PLAYBACK

- The operations described below apply to deck A and deck B alike.
- Switch on your amplifier or receiver.
- Set the Tape Monitor switch on your amplifier or receiver to the TAPE position.
- The numbers in the illustration below depict the order in which operation steps are carried out.

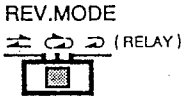
① Press the POWER switch ❶ to the ON (▬) position.
② Press the EJECT (⏏) button ❷ to open the cassette compartment cover ❶.
③ Load the cassette tape and close the cassette compartment cover ❶.
④ When listening to a tape that has been recorded with Dolby noise reduction, set the DOLBY NR switch ❻ to match the system used at the time of recording.



⑤ Press the Direction (◀ ▶) button ⓯ to select the direction of tape transport.

Transport Direction	Indicator
Forward	▷
Reverse	◁

⑥ Select the type of tape transport with the REVERSE MODE switch ❼.



Mode	Switch position
To listen to one side only	⇀
To listen to repeat playback of both sides	⇄
To listen to continuous play back of both sides and both decks.	⇉ (RELAY)

⑦ Press the PLAY button ⓮ to begin playback.
⑧ Press the stop (■) button ⓯ to stop the playback.

- In the continuous playback mode (REVERSE MODE set to ⇄), playback of both tape sides will be repeated 5 times and then stop automatically.
- If different types of Dolby noise reduction are used for record and playback, playback response will be adversely effected.
- When power is turned off during tape transport, it may not be possible to remove the cassette by pressing the EJECT (⏏) button. In this case, turn on power again before you press the EJECT (⏏) button.

■ RELAY PLAY (continuous playback of the tapes in deck A and deck B)

- Load a cassette tape into deck A and B, and set the Dolby NR button correctly.

① REVERSE MODE set to "RELAY" ❼.
② Press the PLAY button ⓮ of the deck you first wish to listen to.
③ To stop relay play, press the stop (■) button ⓯ of the deck currently playing the tape.

- Relay play will play decks A and B in succession for 5 cycles, upon which playback stops. When playback starts from deck B, when switching to deck A, the first deck A playback cycle will be counted as the second cycle. The completion of 5 cycles will always be at the opposite side of the tape in deck B.

■ MUSIC SEARCH SYSTEM

The music search system detects blank sections (lasting for at least 4 seconds) between selections in order to locate the beginning of selections in the forward or reverse direction.

1. To advance from the current selection to the beginning of the next selection (NEXT):
   Press the PLAY button, keep it pressed in, and press the Fast Forward (▶▶) button when the tape is travelling in the forward (▷) direction.
   Press the PLAY button, keep it pressed in, and press the Rewind (◀◀) button when the tape is travelling in the reverse (◁) direction.
   The tape transport indicator flashes.
   The deck will skip the rest of the current selection and automatically resume play from the beginning of the next selection.
2. To repeat playback from the beginning of the current selection (PREVIOUS):
   Press the PLAY button, keep it pressed in, and press the Rewind (◀◀) button when the tape is travelling in the forward (▷) direction.
   Press the PLAY button, keep it pressed in, and press the Fast Forward (▶▶) button when the tape is travelling in the reverse (◁) direction.
   The tape transport indicator flashes.
   The deck will rewind the tape to the beginning of the current selection and automatically resume play from that point.
   This is very convenient for repeating playback of the current selection.

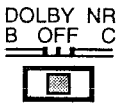
Notes on Music Search Operation:
The search functions operates by detecting comparatively long, blank sections approximately 4 to 5 seconds long, in between recorded selections. Therefore, the system may not operate normally in the following cases:

- Recordings with discontinuous speech or conversation.
- Recordings with long periods of pianissimo (softly played music).
- Recordings with long silences.
- Blank sections with a high level of noise.
- Blank sections shorter than 4 seconds.
- If noise-emitting appliances, such as electric razors, drills, refrigerators, etc., are operated nearby.
- PREVIOUS close to the beginning of the program or NEXT close to the ending.

RECORDING (DECK B only)

- Switch on your amplifier or receiver and the source component.
- Set the Tape Monitor switch on your amplifier or receiver to the SOURCE position.

① Press the POWER switch ❶ to the ON (▬) position.
② Load the cassette tape ❷, ⓫.
(Check that the erasure prevention tabs of the cassette housing have not been broken off.)
③ Move the DOLBY NR switch ❻ and select the Dolby NR type that suits the recording.



④ Press the Direction (◀ ▶) button ⓭ to select the direction of tape transport.
⑤ Select the type of tape transport with the REVERSE MODE button ❼.

Mode	Switch position
To record on only one side	⇀
To continuously record on both sides	⇄ or ⇉ (RELAY)

⑥ Press the REC/REC MUTE (●) button ⓮ to set the recording pause mode. The ●II indicator will light up.
⑦ Adjust the recording level with the INPUT LEVEL control ⓾ while watching the Peak Level Meter
⑧ Press the PLAY button ⓯ to start the recording.
The PLAY (◁ or ▷) and the ● indicator will light during recording.
⑨ To pause the recording, press the REC PAUSE (II) button ⓯. Press the PLAY button ⓯ to resume recording.
⑩ To stop recording, press the stop (■) button ⓯.

Caution:

- Be careful not to erase important recordings by mistake. Inadvertent start of recording will happen in the following cases:
  1. If the PLAY button is pressed while the ● indicator lights, recording starts.
  2. If the PLAY and REC/REC MUTE (●) button are pressed at the same time, recording starts.

  The best way to avoid accidental erasure is to break off the two erasure prevention tabs on the cassette housing.

■ PROPER RECORDING LEVEL

A too high recording level can saturate the tape and cause distortion. On the other hand, if the recording level is set too low, soft passages will be marked by residual noise. A proper recording level is the single most important factor for making well balanced recordings.

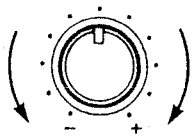
Guideline for maximum recording level

TYPE I (Normal)	0 dB level on peaks
TYPE II (High position)	+1 dB level on peaks
TYPE IV (Metal)	+3 dB level on peaks

Note: The optimum recording level differs depending on the program source and the type of tape used.

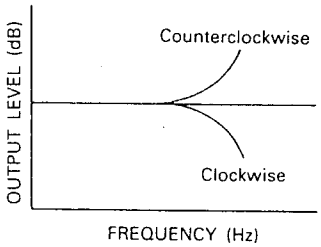
■ RECORDING BIAS ADJUSTMENT

For best recording results, monitoring during recording and comparing different recordings using your own judgement are essential.
The SD555 is equipped with a BIAS FINE control to assist you in setting the proper bias for different types and brands of tape. At the center stop-click position, the deck is set to the reference bias level for Normal, High position and Metal tape. If the resulting recording in this position has too much or too little high frequency content, adjusting the BIAS FINE control can be useful to achieve better results.



BIAS FINE

If the high frequencies (treble sounds) are to be boosted, turn the BIAS FINE control counter-clockwise to decrease the bias current. Turn the control clockwise to increase bias current.
By the use of this control, you can record tapes with a frequency response that will perfectly match your listening taste.



■ REC/REC MUTE AND REC PAUSE Button

1. To record a 5-second blank section during recording:
   Press the REC/REC MUTE (●) button. A 5-second blank will be recorded and the deck will enter the recording standby mode.
2. To record a 5-second blank section during the recording standby mode:
   Press the REC/REC MUTE (●) button from the recording standby mode. A 5 second blank will be recorded and the deck will enter the recording standby mode again.
3. To cancel recording of blank space:
   Press the REC PAUSE (II) button. Blank space recording will be cancelled and the deck enters the recording standby mode.
4. To extend the blank section with another 5 seconds or more:
   Simply press the REC/REC MUTE (●) button and the blank section will be increased with another 5 seconds.

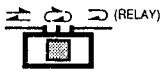
■ DIMMER ADJUSTMENT

With the SD555, the brightness of the display can be adjusted in seven steps.
To make the display brighter, press the B deck's fast forward (▶▶) button while holding in the B deck's STOP button.
To make the display dimmer, press the fast rewind (◀◀) button while holding in the STOP button.
The display is initially set to the maximum brightness

DUBBING (from deck A to deck B)

- Switch on the amplifier or receiver.
- Set the Tape Monitor switch on your amplifier or receiver to the TAPE position.

① Press the POWER switch ❶ to the ON (⎓) position.
② Load the cassette tape to be played in deck A and the one to be recorded in deck B ❷, ❶.
③ Select the type of tape transport with the REVERSE MODE switch ❼.



Reverse mode	Operation
⇄	Dubbing is performed only for one side. The decks stop when either deck A or B reaches the end of the tape.
⟲	The tape direction is reversed on each deck when they reach the end of the tape. (This is convenient for dubbing to a tape with a different length.)
⊃ (RELAY)	During dubbing of the side facing you, the deck that first reaches the end of the tape will stand by until the other deck reaches the end of the tape, then both decks will reverse the tape direction together. (Depending on the manufacturer, the length of tapes having the same recording time may differ somewhat. Setting this mode permits the arrangement of the beginning portion of the opposite side of the tape.)

④ To begin normal speed dubbing, press the DUBBING SPEED NORMAL button ❽. The DUB indicator will light at this time.
To high speed dubbing, press the DUBBING SPEED HIGH button ❽. The HIGH indicator will light at this time.
⑤ To stop dubbing, press the stop (■) button ⓯ of deck A or deck B.

- When deck A is in the playback mode and deck B is in the stop condition, setting deck B to the recording pause mode will engage the normal speed dubbing pause mode. Dubbing is then started by pressing the PLAY button.
- When dubbing, the recording level and the Dolby NR recording will be the same as those of the playback tape, regardless of the positions of the INPUT LEVEL control and the DOLBY NR button.
- When listening to the playback sound during normal speed dubbing, the DOLBY NR switch remains off even if it is pressed.
- The playback sound cannot be heard during high speed dubbing.
- Operation using the REC/REC MUTE (●) and REC PAUSE (❚❚) buttons of deck B is permitted during normal speed dubbing.
- Buttons other than the stop (■) button cannot be used during high speed dubbing.

SYNCHRONIZED RECORDING FUNCTION

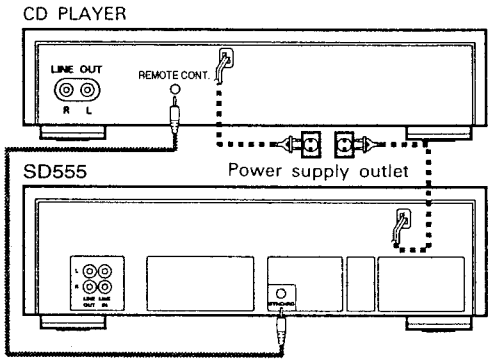
- Convenient synchronized recording can be performed when used in combination with a MARANTZ CD player equipped for the synchronized recording function.
- REMOTE CONT. Jack Connection Connect the REMOTE CONT. Jack with a MARANTZ CD player which is equipped with a REMOTE CONT. jack, then make a synchronized recording. Use the connection cord supplied with this cassette deck
- Switch on your amplifier or receiver and the CD player.
- Set the tape Monitor switch on your amplifier or receiver to the source position.

① Load the tape onto which you want to record into deck B, the disc you want to record into the CD player.
② Following the recording instructions on page 8, set the Dolby NR mode, the direction, the reverse mode and the input level.
③ Set the CD player to the stop or pause mode.
④ Press the REC/REC MUTE (●) button and REC PAUSE (❚❚) button simultaneously. The "SYNC" indicator lights on the cassette deck.
⑤ Start playing CD player.
The tape recording will start at the same time. It stops at the same time as the CD player stops playback.

Note:

- With new CD player models released in '93 or later, if the REVERSE MODE switch is set to " ⊃ " before starting synchro-edit recording, automatic edit recording on both tape sides A and B is possible.
- With CD player models released in '92 or before, if the REVERSE MODE switch should be set to " ⇄ " before starting synchro-edit recording. (This results in an edit recording of one tape side.)
- A different operation procedure may be required in case CD player incorporates the edit function, please also read the owner's manual of your CD player.

⑥ To stop synchronized recording, press the stop button on deck B and stop button on CD.
The synchronized recording mode is cancelled for both the cassette deck and CD player.
⑦ To stop synchronized recording temporarily, press the stop button on the CD player. A 5-second blank space is created on the tape, after which the recording pause mode is set. The "SYNC" indicator flashes.
To resume synchronized recording, press the PLAY button on the CD player.



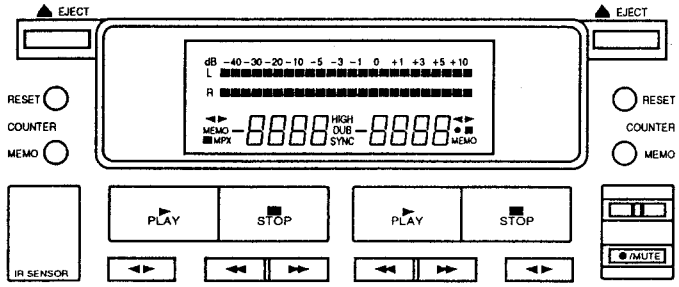
Note:

- If synchronized recording is started when the CD player is in a mode other than the stop or pause mode or when no disc is set, the "SYNC" indicator on the cassette deck flashes and the recording pause mode is set until synchronized recording is possible on the CD player.
- In the synchronized recording mode, only the STOP button on deck B will function.

Caution:

- Do not set the cassette deck to the synchronized recording mode when the CD player is in the play mode. Also, do not turn off the power of the cassette deck or the CD player during synchronized recording. Doing so can result in malfunction.
- During the editing operation, when using the editing functions on the CD player, be sure to select a tape with a sufficiently long recording time.
For the CD player's editing functions, refer to the CD player's operating instructions.

TAPE COUNTER AND MEMORY STOP



1) Operation of the Tape Counter

(1) Press the RESET button to reset the counter to " 0000 ".

(2) By using the PLAY, FF, or REW functions, the reading of the counter will change to indicate index position.

- During recording and playback operations, the counter is useful for noting the location of existing programs or positions where recording is to be started.
- The reading of this counter does not correspond with that of any other deck.

(3) Deck A and Deck B have the memory of their own counter.

2) MEMORY STOP Operation

(1) During recording or playback, the Memory Stop feature can be used to locate a particular point on the tape. Press the COUNTER RESET button at the desired point.

(2) Then Press the COUNTER MEMORY button, the MEMO indicator lights.

(3) When the Rewind (◀◀) button is pressed during forward tape travel (▷), or the Fast Forward (▶▶) button is pressed during reverse tape travel (◁), the tape is rapidly rewound (or advanced) until the counter indication of " 0000 " is reached.

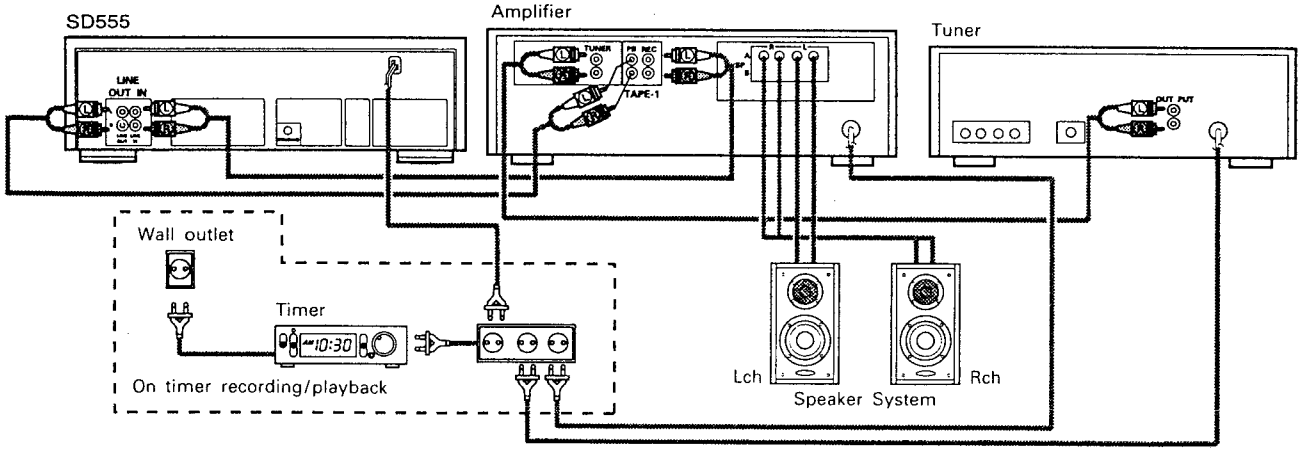
- The Memory Stop feature will rewind or forward the tape to within −5 counts in the forward (▷) direction (from " 0000 " to "− 0005 ") and to within +5 counts in the reverse (◁) direction (from " 0000 " to " 0005 "). After this, several seconds are required for corrective operations.
- The Memory Stop function operates independently in both directions for deck A and deck B.

Caution:

If the memory stop operation is performed after repeated fast-forwarding or rewinding, the tape may not stop at the proper position.

TIMER RECORDING / PLAYBACK

Timer recording/playback can be made using any audio timer available on the market.



- **Timer recording procedure**

1. Make sure the connections are correct, especially the power supply connections.
2. Turn "on" the power switch of each appliance.
3. Tune the desired station on the tuner.
4. Load the tape for recording. (Make sure the erase prevention tab is not broken off; if it is, cover the hole with plastic tape).
5. Set the Dolby NR switch to the appropriate position.
6. Make sure the monitor switch to the SOURCE position.
7. Adjust the recording input level.
8. Set the starting position of the tape.
9. Set the timer switch (TIMER) to the "REC" side.

10. Set the audio timer to the desired time. The audio timer will turn the power supply on at the desired time.

* With the above procedures, timer controlled recording can be made. When the preset time comes, the power is supplied and the FM broadcast can be recorded.

* The MPX filter activates automatically during Timer REC.

- **Timer playback procedure**

1. Make sure the connections are correct, especially the power supply connections.
2. Turn "on" the power switch of each appliance.
3. Load the pre-recorded tape to be played back.
4. Set the Dolby NR switches to the appropriate positions.
5. Set the monitor switch of the Amplifier to the TAPE position.
6. Press the PLAY (▶) button and playback the tape; adjust the playback level.
   Press the stop (■) button.
7. Set the timer switch (TIMER) to the "PLAY" side.

8. Set the audio timer to the desired time. The audio timer will turn the power supply on at the desired time.

* With the above procedures, timer playback can be accomplished. When the preset time comes, the power is supplied and playback will start.

Note:

- Please read the operating instructions for the timer before use.
- If the timer recording or playback is not desired, be sure to switch the timer switch (TIMER) to "OFF".
- When using timers that allow several "on/off" operations, timer start functioning can continue an unlimited number of times until the tape in the machine is finished.

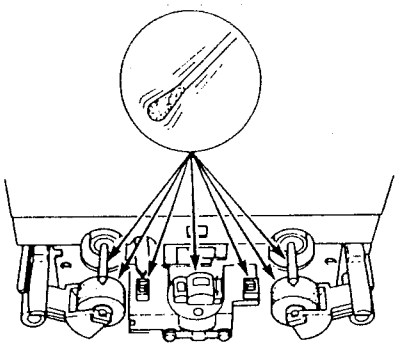
MAINTENANCE

■ **Head Cleaning**

After long usage, tape coating or dust may adhere to the heads, causing deterioration of sound. Therefore, the parts depicted in the illustration should be cleaned regularly. Use a cotton swab moistened with a tape head cleaning solution (such as alcohol).

Note:

1. Some cleaning cassettes on the market have strong abrasive effects and may scratch the heads. Always use cotton swabs instead of cleaning cassettes.
2. Since the use of metal tape is apt to collect more dust on the heads, the heads should be cleaned more often to enjoy the best possible sound.



	D-BUS CODE
PLAY	1853
▶▶(FF)	1852
◀◀(REW)	1850
REC PAUSE	1848
STOP	1854
REC/REC MUTE	1855
COUNTER MEMO	1841
NEXT	1832
PREVIOUS	1833
DECK A	1844
DECK B	1846
DIRECTION	1847

■ **Cleaning the Pinch Rollers and Capstans**

If the pinch rollers or capstans accumulate dust, tape transport may become unstable, as a result from slippage, during recording or playback. The tape can also be damaged if it gets entangled in the capstan.

Clean these parts with a cotton swab or a soft cloth moistened with a tape head cleaning solution (such as alcohol).

■ **Demagnetizing the Heads**

The heads will become magnetized after long usage or if strongly magnetized objects are brought near them. The result is a generation of noise, loss of the high frequency range, and in extreme cases erasure of treble components on pre-recorded tapes in combination with added noise.

Thus, the heads should be demagnetized at regular intervals. (Head demagnetizers are separately available from your dealer.)

■ **How to Demagnetize the Tape Heads**

1. Turn off the power.
2. Turn on the demagnetizer while it is at least 30 cm away from the heads. Bring the demagnetizer near the heads and slowly move it in small circles four or five times in front of each head, making sure you do not touch them.
3. Slowly move the demagnetizer away and turn it off when it is at least 30 cm away from the heads.

TROUBLESHOOTING

Check the following before you draw the conclusion that your Stereo Cassette Deck is malfunctioning.

1. Are all the connections correct?
2. Are all system components being operated correctly in accordance with the operating instructions?
3. Are the speakers and amplifier/receiver functioning correctly?

If the tape deck still does not function properly, check the symptom against the list below. If the symptom does not correspond to the check list, please contact your MARANTZ dealer.

Problem	Cause	Remedy
Tape does not run	• Power cord is disconnected. • Tape is loose. • Cassette is not loaded properly. • Defective cassette.	• Check power cord. • Tighten tape with a pencil, etc. • Load cassette properly. • Replace cassette.
Tape is not recorded when REC/REC MUTE (●) button is pressed.	• No cassette is loaded. • Erase prevention tabs are broken off.	• Load cassette. • Cover holes with adhesive tape.
Sound is warbled and distorted.	• Heads, capstan or pinch roller are dirty. • Tape is wound too tight. • Recording input level is too high. • Tape is worn out and has "drop-outs".	• Clean them. • Fast forward or rewind to loosen tape winding. • Adjust recording input level. • Replace tape.
Excessive noise	• Tape is worn. • Heads, capstan or pinch roller are dirty. • Heads are magnetized. • Recording input level is too low.	• Replace them. • Clean them. • Demagnetize heads. • Adjust recording input level.
High frequency range (treble) is emphasized.	• Dolby NR switch is set improperly.	• Set Dolby NR Switch properly.
High frequency range (treble) is lost.	• Heads are dirty. • Tape is worn.	• Clean them. • Replace tape.
The cassette tape cannot be removed.	• If the POWER switch is turned off either during recording or playback and the unit is stopped, there may be cases when the cassette cannot be removed, even if the EJECT (▲) button is pressed.	• Turn the POWER switch ON (▬) again, and then press the STOP (■) button. • Now, press the EJECT (▲) button to remove the cassette tape.

SPECIFICATIONS

Type	Vertical tape loading; 4-track 2-channel stereo double cassette deck
Heads	Play back head × 1 recording/playback head × 1 Erase head (Double-gap ferrite) × 1
Motors	DC servo motor × 2
Tape Speed	4.8 cm/sec.
Fast Forward, Rewind Time	Approx. 100 sec. with a C-60 cassette
Recording Bias	Approx 105 kHz
Overall S/N Ratio (at 3% THD level)	Dolby C NR on: more than 74 dB (CCIR/ARM)
Overall Frequency Response	20 ~ 18,000 Hz ±3 dB (at −20 dB, Metal tape)
Channel Separation	More than 40 dB (at 1 kHz)
Wow & Flutter	0.08% WRMS, ±0.14% w. peak
Input	
LINE	80 mV (−20 dBm) input level at maximum Input impedance: 50 kΩ/kohms unbalanced
Output	
LINE	775 mV (0 dB) output level at maximum (with 47 kΩ/kohms load, recorded level of 200 pwb/mm)
PHONES	1.2 mW output level at maximum (optimum load impedance 8 Ω/ohms ~ 1.2 kΩ/ohms)
Power Consumption	16 W
Dimensions	439 (W) × 135 (H) × 310 (D) mm
Weight	4.0 kg (9 lbs)

* Above specifications and design are subject to change without prior notice.

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